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**From:** Fuentes, Rene [fuentes.rene@epa.gov]  
**Sent:** 3/22/2018 9:13:00 PM  
**To:** Burdett, Cheryl [burdett.cheryl@epa.gov]  
**CC:** Winiecki, Eric [Winiecki.Eric@epa.gov]  
**Subject:** Central Sands related tools  
**Attachments:** Mark Henry Sampler Measurement 1.jpg; ODEQ Shore Sampling 17A.jpg; ECO Update GW SW Transition Zones July 08.pdf

*Cheryl,*

*Here is a tool that we have used to monitor groundwater near the edges of surface water (rivers, oceans, lakes, etc.) It is a similar concept as a Geoprobe, but in miniature. It does make it easy to get samples from below the sediment surface in surface water bodies and also helps to make the connection of ground water to surface waters by tracking the contaminants, with the added benefit that you do not lose the contaminants by getting them too diluted into the large mass of surface water or fast moving streams.*

*Also sending a document that we developed a few years back (EcoUpdate), but which still seems to have value.*

*HOWEVER, unless you have plenty of time I would not get sidetracked with the shoreline sampling until after you have your Geoprobe work in uplands completed. Tackling this may confuse your main objective and this is much easier to do later if you feel you need it.*

*René*

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**From:** Burdett, Cheryl  
**Sent:** Thursday, March 22, 2018 11:50 AM  
**To:** Burdett, Cheryl <burdett.cheryl@epa.gov>; Wilson, Jennifer <wilson.jenniferA@epa.gov>; Fuentes, Rene <fuentes.rene@epa.gov>; Brown, DonaldM <Brown.DonaldM@epa.gov>; MacDonald, Jennifer <Macdonald.Jennifer@epa.gov>  
**Subject:** FW: Central Sands

FYI.

Cheryl Burdett